

Capabilities in Data and Network Security

NeST is one of the few companies in India to have developed and maintained best in class security products matching expectations from international customers.

In addition to core technology capabilities, NeST, with its firm standing on mature quality processes, is your ideal partner in developing products in the security domain. The track record of the company in security solutions has been exemplary with one of the developed products being evaluated at EAL 3 under the Common Criteria for Development of Security Products (ISO 15408).

- Cryptographic hardware manufacture – NeST's ISO 9001 certified manufacturing facilities could meet any requirements in crypto hardware manufacturing.
- Custom Security Solutions – Combined with the hardware research and manufacturing capability, the CMM L5 software development center has successfully developed a multitude of security products for some of the biggest names in IT industry.
- Security products – In addition to custom support, NeST also produces its own enterprise security suite, to meet the out-of-the-box requirements.

NeST's capability to provide cutting edge solutions depends on its vast experience in utilizing latest technologies to develop products for some of the largest technology companies in the world.

Firmware & Software

- More than 40 Engineers with skills in Cryptographic systems
- 5-years+ experience working with world leaders like NEC, NTT and Toshiba
- Access and experience with latest Technologies from world leaders

Security Standards

- FIPS PUB140-1 Level 4
- PKCS Standards
- Industry Standard Application Interface
- Digital encryption technologies such as DES, and 3DES

Cryptography

- Real time secure communication solutions
- Solutions using up to 2048 bit keys
- Hardware / Firmware based products
- Multiple hardware and software platforms

Productisation

- Experience in developing and certifying products
- Extended field support
- Access to manufacturing, marketing and after sales infrastructure
- Experience in product support in US & Japanese markets

PROJECT BRIEFS

Data Protection Security Product Development

The objective of the project was to develop a policy based data security product which hardens the target OS. The concept was to provide a level of access control over and above what is normally provided by the OS. The product needed to be developed in all the popularly used OS namely Windows (all versions), HP-UX, Solaris, AIX and Linux. It involved

- Device driver / kernel mode development
- Kernel level OS hardening
- Self Protection

Working at the lowest level possible in the OS kernel, the application lets the administrator set policies. These policies specify

- The User context in which an access is allowed
- The Application(s) using which the access is requested
- The time at which the access is allowed
- The access attributes – Read, Write, Delete etc.

Only those access requests that match all the set policy criteria are allowed. All other requests are rejected. The whole solution is fully transparent to a normal user.

ISO 15408 Security Certification Consultancy

The objective of this project was to get a security product certified under the ISO 15408/EAL-3. It involved

- Security product certification Consultancy
- Security Standards implementation
- Development security
- Security Testing

Conducted threat and vulnerability analysis to suggest and implement changes in the product with support documentation for the successful certification of the product. Ensured and supervised the maintenance of the development process and environment as per the standards specified in the Common Criteria.

Secure Digital (SD) Memory Cards

SD memory cards are stamp size Flash ROM cards intended for use in next generation intelligent devices. These cards adhere to the SD specification developed by Toshiba, Matsushita and SanDisk in response to the Sony's memory stick initiative. The specification addresses the physical, File system and security aspects of the memory cards. These cards are available with 32, 64 & 128 MB capacity.

We have developed evaluation tools for SD Card manufacturers addressing all aspects of SD Card specification including content protection. The development involved design of the complete system architecture upon the PC platform and sound knowledge of the Windows Storage Architecture, in addition to expertise on development of general disk utilities.

For more information on NeST's service offerings in the Wireless domain, please contact:

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